

ABSTRACT

A robust and efficient service-to-service communications protocol that handles change information in an identity-centric data access architecture. The protocol enables the automatic publication and subscription by services of changes made to data of millions of users. The protocol is role-based in that a user controls the users that can subscribe for the user's data changes and is efficient in that data is change data for users are combined and batched, and robust to handle failure scenarios. In one implementation, the a "publisher" refers to the .NET MyServices service which is the source of the data, while a "subscriber" refers to the .NET MyServices service that receives the data. The publisher and subscriber maintain updated information about each other's users in order to accomplish selective data communication and filtering. To provide robustness, requests are acknowledged, and until acknowledged, retried regularly for awhile, with delays between regular retries.

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